

Grant Proposal Solicitation (GPS) No. 08-606
Establish Demonstration Hydrogen Refueling Stations
Questions & Answers
January 23, 2009

1.) Q. Is the purchase of kilo-watt hour usage of "Green Power" and/or "Green Credits" qualifiable as renewable electricity in the solicitation?

A. Yes, as long as the credits associated with the renewable power have not already been counted towards the utility's RPS obligation or toward another green power type program. Green power purchases must be documented (i.e., utility bill) and verified that the credits are retired with the associated power usage.

2.) Q. I know there is no requirement for renewable hydrogen in this round, but I believe that a team's case is helped if it does use renewables. In that case, how does the GREET model weigh electrolysis versus SMR hydrogen? On top of that, how does it weigh the purchase of green electricity from the grid for the use of electrolysis in general?

A. The GREET model is used to review emissions from the station production method. For examples of emissions from hydrogen production please review recent studies such as the Full Fuel Cycle Assessment included with the CEC/ARB report on Assembly Bill 1007 "The State Alternative Fuels Plan" (<http://www.energy.ca.gov/2007publications/CEC-600-2007-004/CEC-600-2007-004-REV.PDF>). Emissions may vary depending on the renewable source. However, when the GREET model is used, purchased renewable electricity is assumed to have zero emissions. Appendix 4 of the station RFP describes the method for determining the percentage of renewable hydrogen produced.

However, to encourage new renewable projects, only projects that actually deploy renewable energy or hydrogen systems will receive the maximum amount of points or funding available in the renewable energy category. The solicitation indicated a maximum difference in the funding amount between renewable and non-renewable projects of approximately \$600,000 and up to 30 points in the Scoring Matrix. The amount of additional funds awarded for the purchase of Green Power or renewable energy credits will be limited to the actual incremental cost of the Green Power or energy credits. In addition, the points awarded in the New Renewable Energy scoring category (Scoring Matrix item 4) will be scaled relative to the amount of renewable energy provided through purchased credits and relative to the amount of new renewable energy developed. A maximum of ten points will be awarded for projects using only purchased credits and a maximum of thirty (30) points will be awarded for newly developed renewable projects.